

FIG. 2

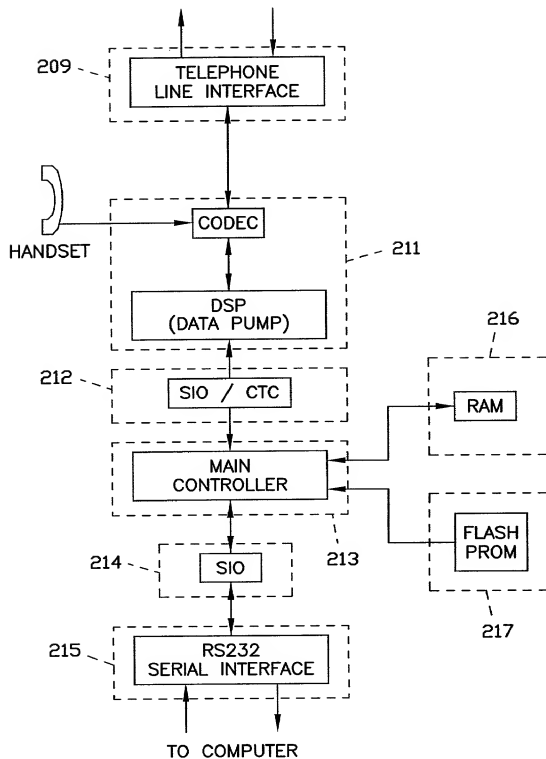


FIG. 2

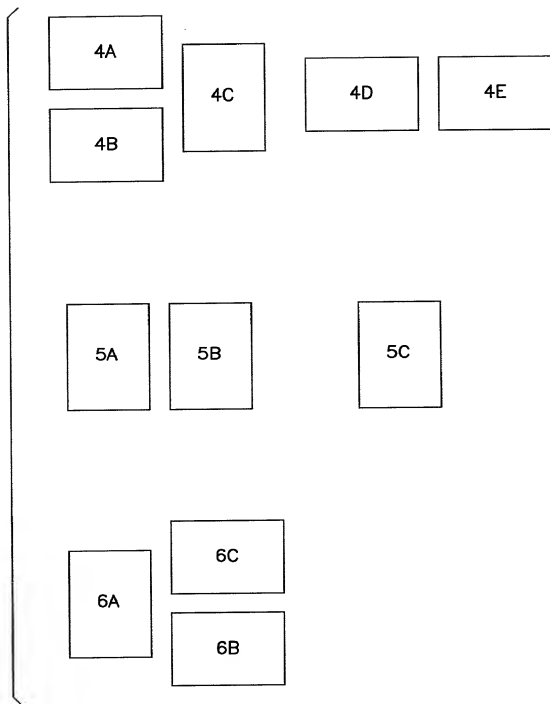
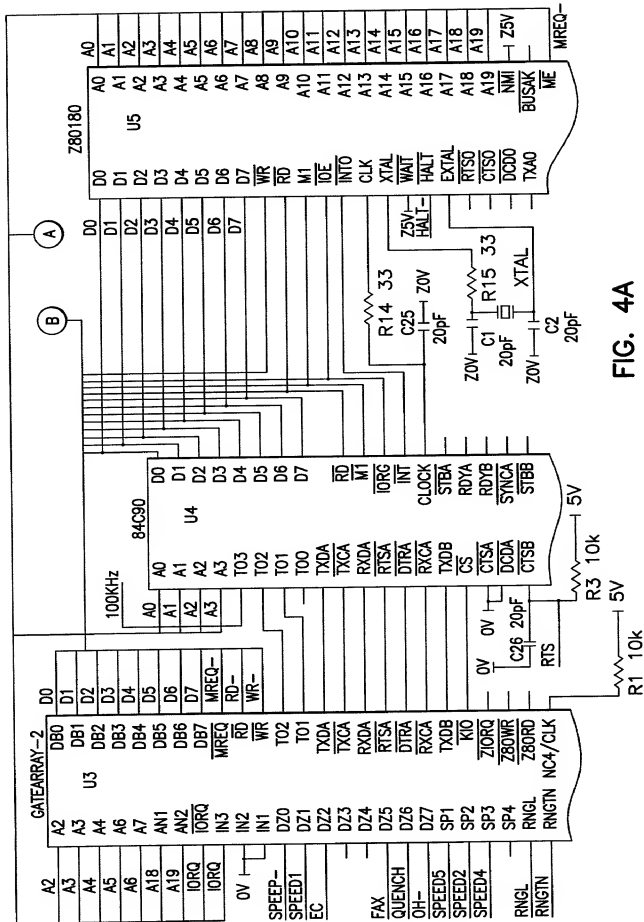


FIG. 3



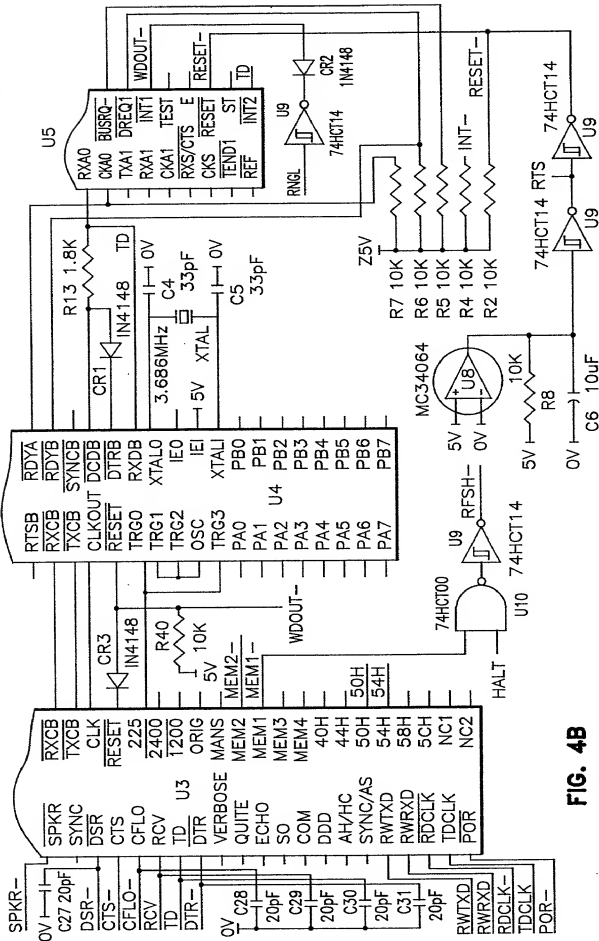


FIG. 4B

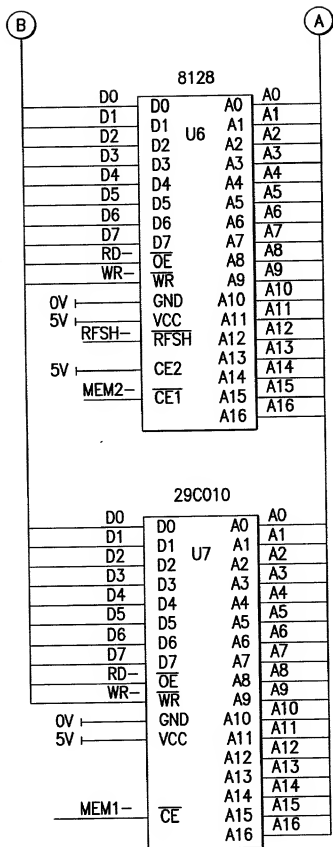


FIG. 4C

FIG. 4D

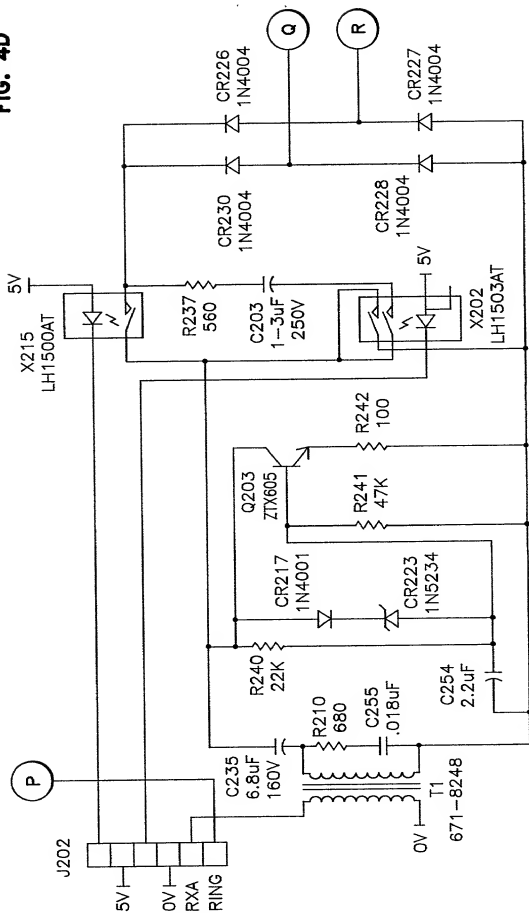
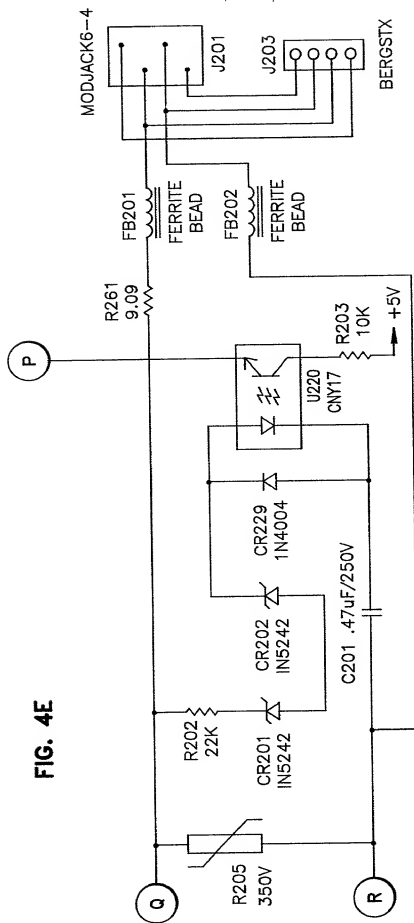


FIG. 4E



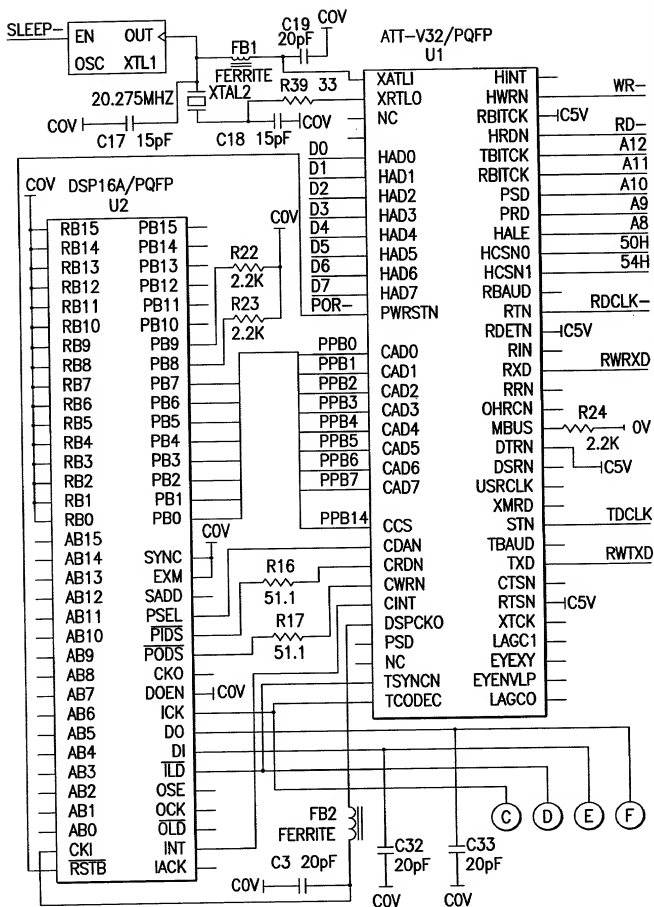


FIG. 5A

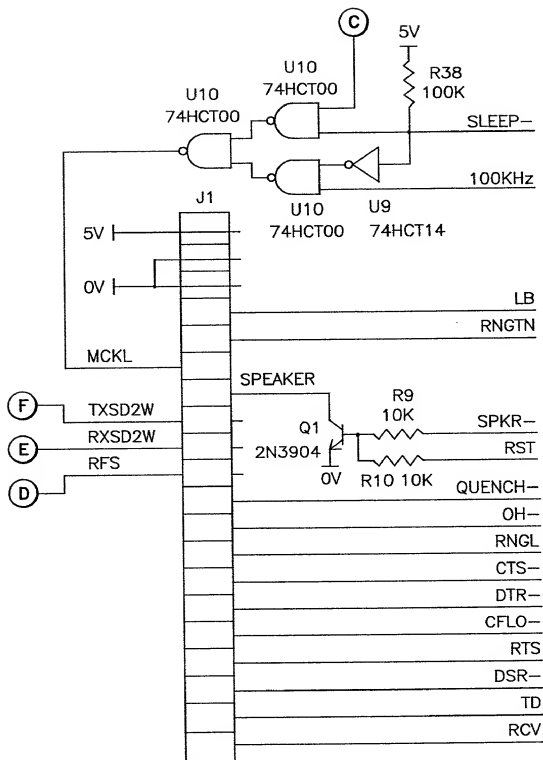


FIG. 5B

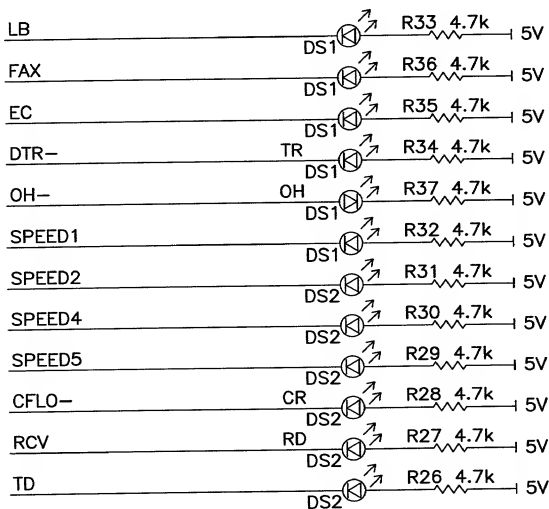


FIG. 5C

FIG. 6A

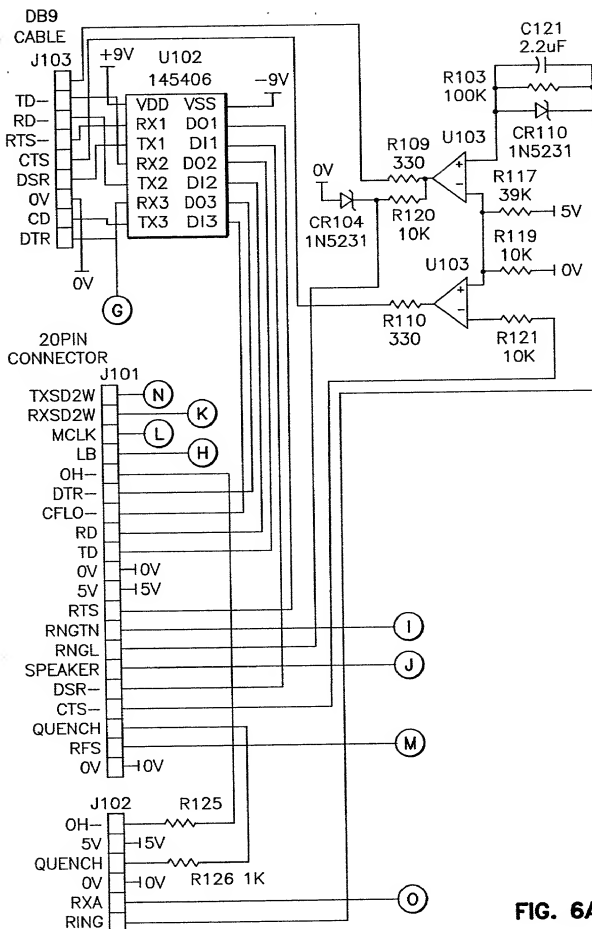


FIG. 6A

0975529.101001

GET UPDATE

DOWNLOAD HEX FILES
FROM CENTRAL COMPUTER
TO HOST PC

END

FIG. 7

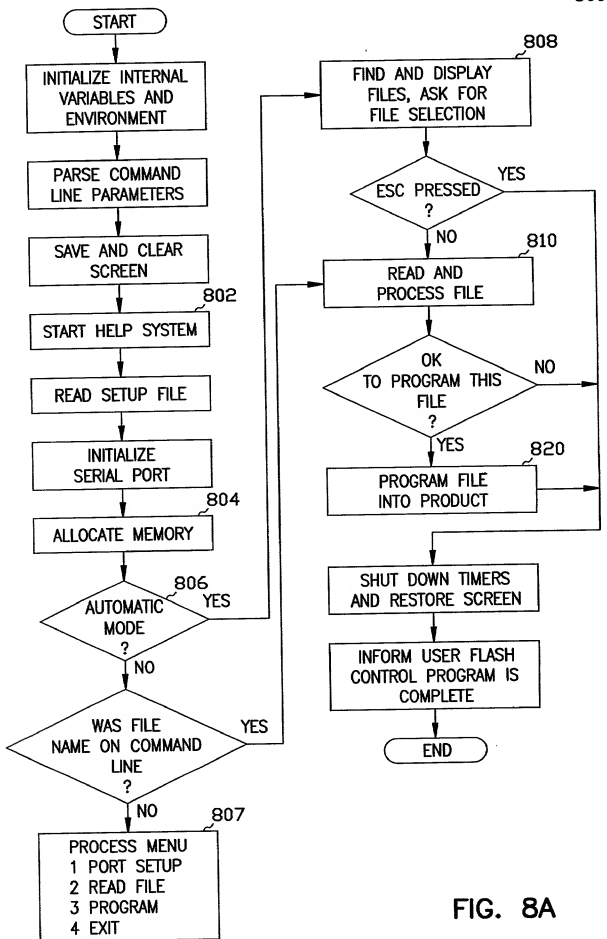


FIG. 8A

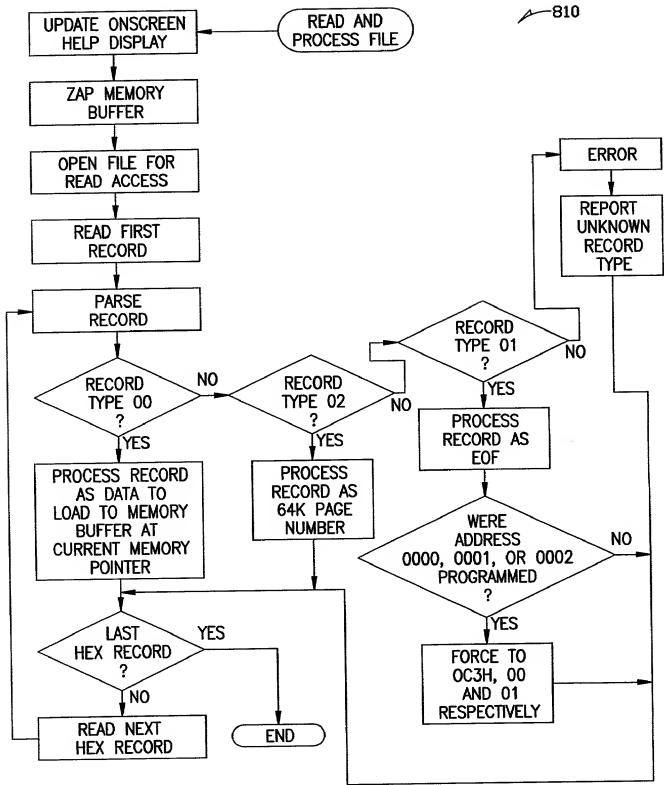


FIG. 8B

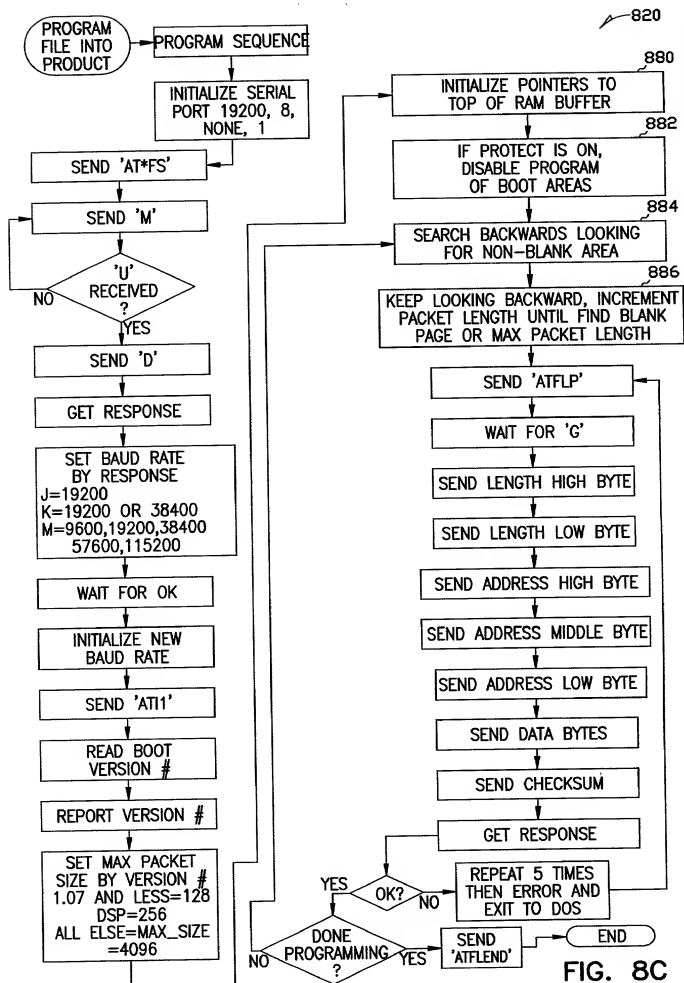


FIG. 8C

```

graph TD
    START([START]) --> PowerUp[POWER UP OR AT * FS]
    PowerUp --> InitPort[INITIALIZE PORT FOR 19200 BAUD, COPY CODE TO RAM, JUMP TO RAM]
    InitPort --> InitCounter[INITIALIZE COUNTER FOR 30ms]
    InitCounter --> GetChar1[GET A CHARACTER]
    GetChar1 --> RecvM1{'M' RECEIVED?'}
    RecvM1 -- YES --> SendU[SEND 'U' INITIALIZE COUNTER FOR 300ms]
    RecvM1 -- NO --> DecCounter1[DECREMENT COUNTER]
    DecCounter1 --> CounterZero1{COUNTER=0?}
    CounterZero1 -- YES --> ExitMain[EXIT TO MAIN CODE]
    CounterZero1 -- NO --> GetChar1
    SendU --> GetChar2[GET A CHARACTER]
    GetChar2 --> RecvD{'D' RECEIVED?'}
    RecvD -- YES --> SendM[SEND 'M']
    RecvD -- NO --> DecCounter2[DECREMENT COUNTER]
    DecCounter2 --> CounterZero2{COUNTER=0?}
    CounterZero2 -- YES --> Exit([EXIT])
    CounterZero2 -- NO --> GetChar2
    SendM --> GetChar3[GET A CHARACTER]
    GetChar3 --> RecvIJKLM{'I,J,K,L,M' ?'}
    RecvIJKLM -- YES --> Config[CONFIGURE ACCORDING TO LETTER RECEIVED  
I=9600  
J=19200  
K=38400  
L=57600  
M=115200]
    RecvIJKLM -- NO --> GetChar3
    Config --> AcceptCmds[ACCEPT COMMANDS]

```

FIG. 9A

00000000000000000000

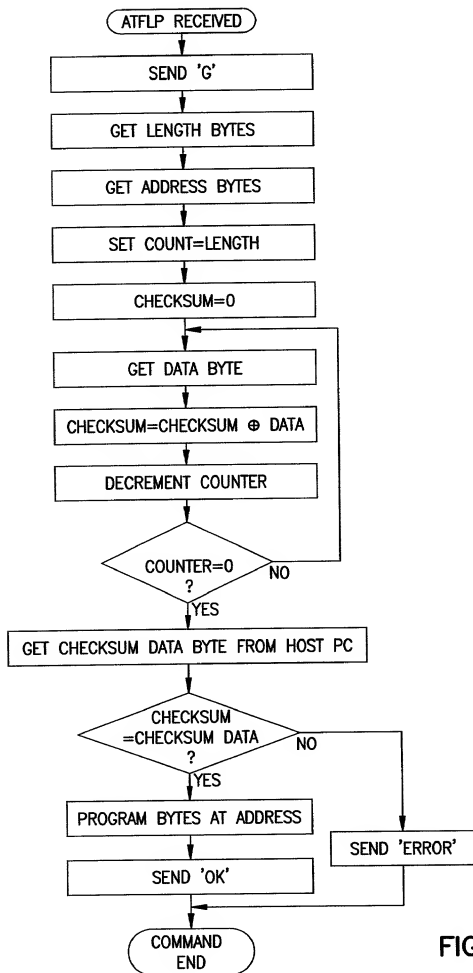


FIG. 9B

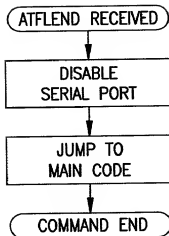


FIG. 9C

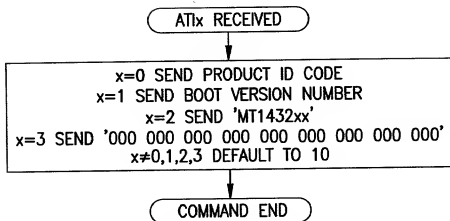
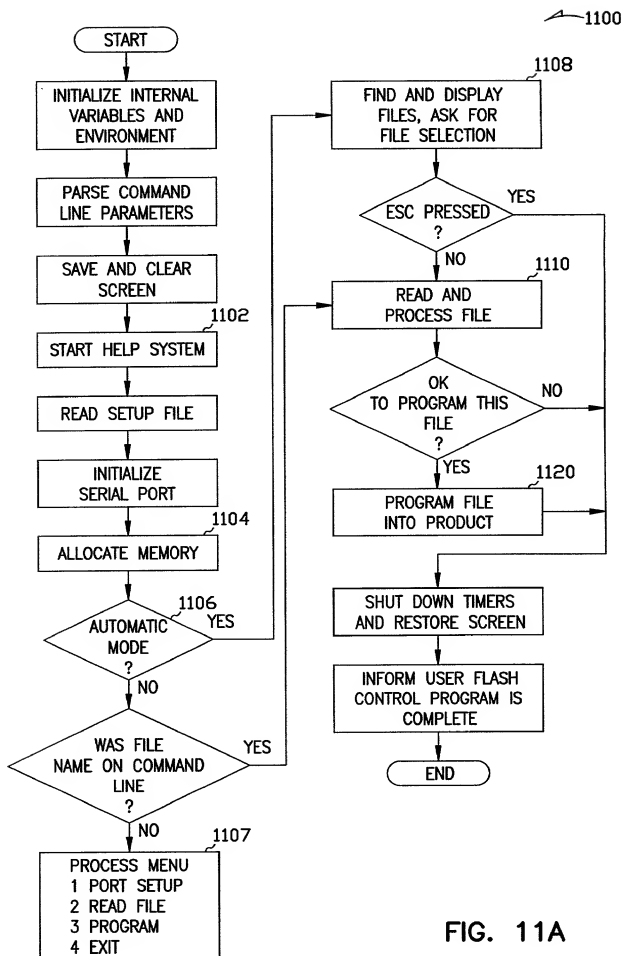


FIG. 9D

```

graph TD
    A[ESTABLISH COMMUNICATIONS BETWEEN  
THE BULLETIN BOARD AND THE MODEM  
TO BE PROGRAMMED WITH UPGRADED CODE] --> B[ENTER COMMAND MODE BY TRANSMITTING AN  
ESCAPE SEQUENCE TO THE MODEM]
    B --> C[ENTER PROGRAMMING MODE BY TRANSMITTING  
"AT * FS1" TO THE MODEM]
    C --> D[EXECUTE THE FLASH CONTROL PROGRAM AT THE  
BULLETIN BOARD SIDE AND DOWNLOAD  
PACKETIZED UPDATED OPERATING CODE TO  
THE MODEM]
    D --> E([END])
  
```

FIG. 10



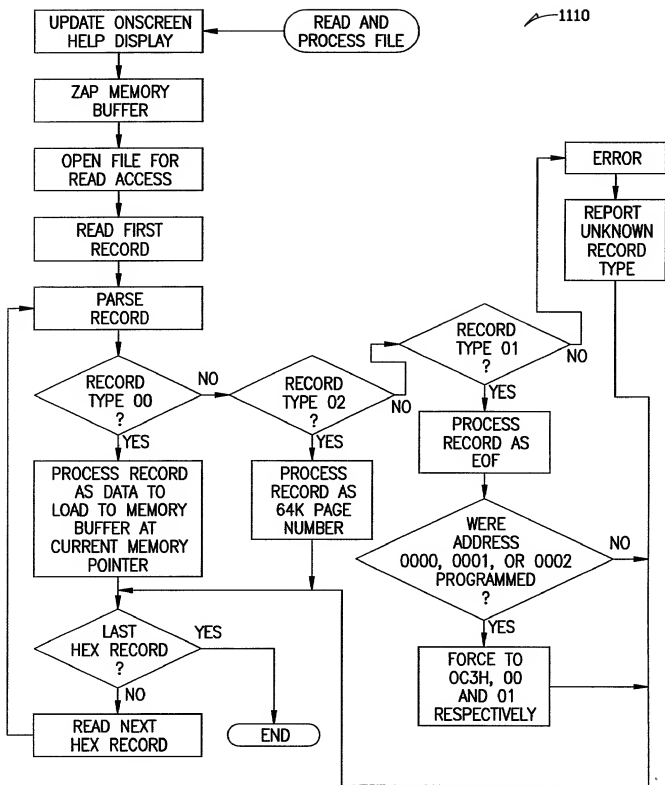
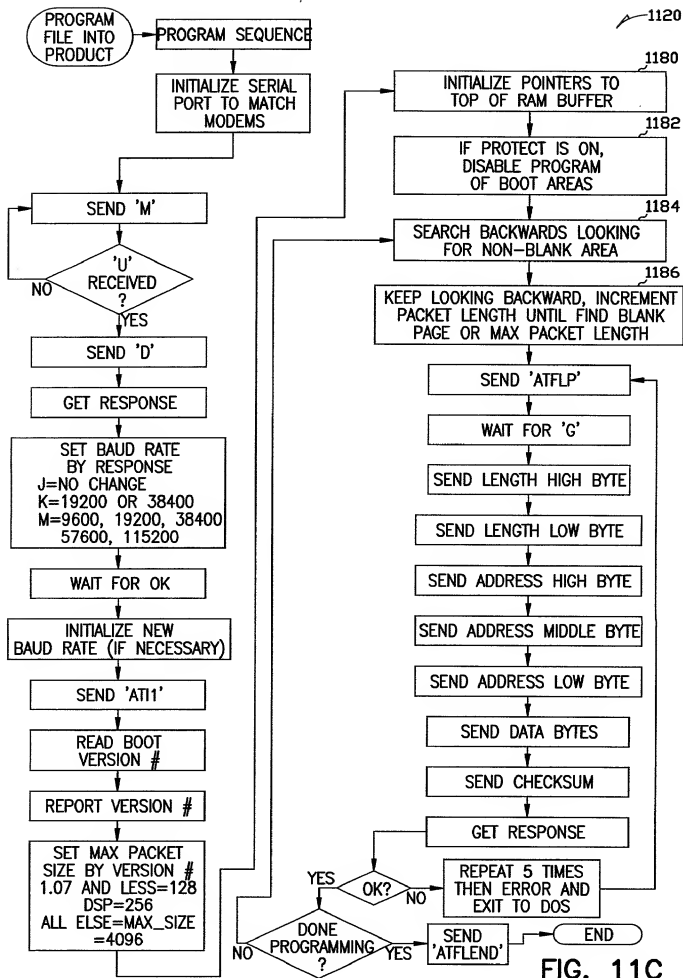


FIG. 11B



```

graph TD
    START([START]) --> RECEIVE[RECEIVE REMOTE UPGRADE  
COMMAND (AT * FSI)]
    RECEIVE --> COPY[COPY CODE  
TO RAM, JUMP TO RAM]
    COPY --> WAIT[WAIT FOR REMOTE PC TO EXIT  
DATA MODE AND PROCESS  
UPDATED OPERATING CODE]
    WAIT --> GET_CHAR1[GET A CHARACTER]
    GET_CHAR1 --> IS_M1{'M'  
RECEIVED ?'}
    IS_M1 -- YES --> SEND_U[SEND 'U'  
INITIALIZE  
COUNTER  
FOR 300ms]
    IS_M1 -- NO --> DEC_COUNTER1[DECREMENT  
COUNTER]
    DEC_COUNTER1 --> IS_ZERO1{COUNTER=0  
?}
    IS_ZERO1 -- YES --> EXIT_MAIN[EXIT TO  
MAIN CODE]
    IS_ZERO1 -- NO --> GET_CHAR1
    SEND_U --> GET_CHAR2[GET A CHARACTER]
    GET_CHAR2 --> IS_D{'D'  
RECEIVED ?'}
    IS_D -- YES --> SEND_M[SEND 'M']
    IS_D -- NO --> DEC_COUNTER2[DECREMENT  
COUNTER]
    DEC_COUNTER2 --> IS_ZERO2{COUNTER=0  
?}
    IS_ZERO2 -- YES --> EXIT([EXIT])
    IS_ZERO2 -- NO --> GET_CHAR2
    SEND_M --> GET_CHAR3[GET A  
CHARACTER]
    GET_CHAR3 --> IS_IJKLM{'I,J,K,L,M'  
?'}
    IS_IJKLM -- YES --> CONFIG[CONFIGURE  
ACCORDING TO  
LETTER RECEIVED  
I=9600  
J=NO CHANGE  
K=38400  
L=57600  
M=115200]
    IS_IJKLM -- NO --> GET_CHAR3
    CONFIG --> ACCEPT[ACCEPT  
COMMANDS]
  
```

FIG. 12A

COPIES OF THE REPORT

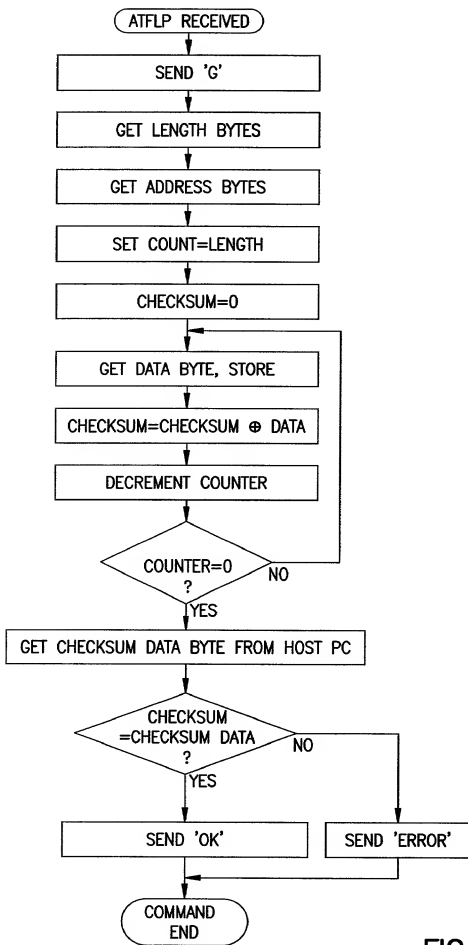


FIG. 12B

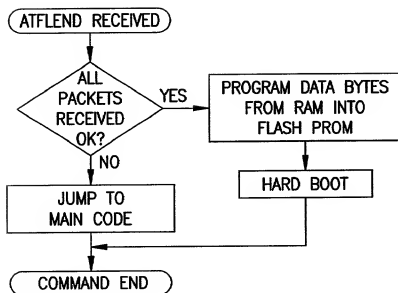


FIG. 12C

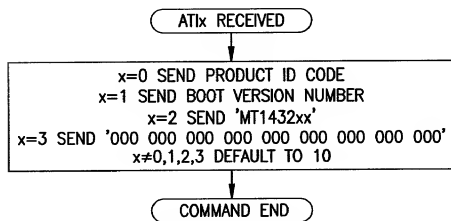


FIG. 12D